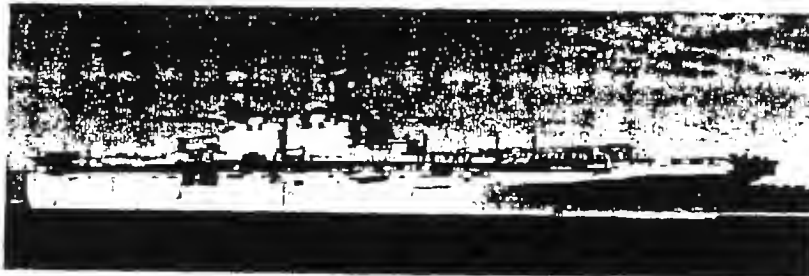


Welcome to ANCHORY

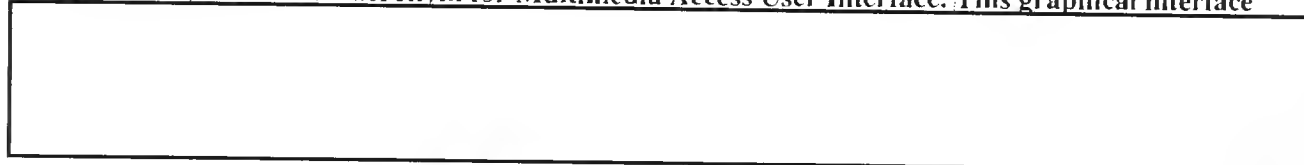


(U//~~FOUO~~) ANCHORY is a system that provides timely retrieval of textual data by keyword and other relevant information on a 24-hour per day, 7 day per week basis. [redacted] is the ANCHORY hardware platform and BRS/Search, a commercial software product, is the engine behind ANCHORY text retrieval and database management functions.

(U//~~FOUO~~) This team is responsible for the life-cycle support and user assistance for the ANCHORY Information Storage and Retrieval System.

(U//~~FOUO~~) ANCHORY contains three years of full text reports written by NSA, CIA, DIA, State and Foreign Broadcast Information System, as well as Reuters News Service, Cryptologic Intelligence Reports, and precis of hard copy reports.

(U//~~FOUO~~) MAUI is an acronym for Multimedia Access User Interface. This graphical interface



NT Users' Notes button.

Login to ANCHORY provides a non-web based interface to ANCHORY.

Login to MAUI provides a web based interface to ANCHORY.

Last update: 12 April 2000
Please address Questions/Comments to [redacted]

(b) (3) - P.L. 86-36

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ANCHORY

Data Characteristics & Database Specifications

1.0 (U) GENERAL

1.1 (U) Purpose

(U) In a text database system of the size of ANCHORY, the documentation of the data characteristic and database specifications is immense. This document will present a complete but somewhat generalized explanation of the documents that enter the ANCHORY database system. This document relies on the reader's knowledge of and/or access to information in several areas including: design of the input load process, the flow and specific workings of individual program modules, and to some degree, the data itself. It makes heavy use of tables to show a complete list of items and the general differences between these items.

(U) This is a draft document. Updates to this document will be as appropriate.

1.2 (U) References

(U) ANCHORY T Project Plan, T531-ANCH/006/92, dated 26 June 1992.

(U) ANCHORY System Requirements Specification, T531-ANCH/007/92, dated 30 June 1992.

(U) ANCHORY Software Requirements Specification & System/Subsystem Specification, E33-ANCH/012/92, dated 11 December 1992.

(U) ANCHORY Software Program Specification, E335-ANCH/001/93, Draft dated 15 Mar 1993.

(U) SOLIS Security Manual, T3321, dated June 1981.

(U) DCID 1/16 "Security Policy for Uniform Protection of Intelligence Processed in Automated Information Systems and Networks."

(U) DOD 5200.28-STD "Department of Defense Trusted Computer System Evaluation Criteria."

(U) NSA/CSS Manual 130-1, "NSA/CSS Operational Computer Security Manual."

15 March 1993

22 Oct 1993

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(U) CASCADE Project Baseline Summary-I, DDT, July 1992.

(U) SOLIS/INKSLINGER ICD, T32 and T331, draft.

~~(FOUO)~~ NSA/CSS Manual of Standard Data Elements and Related Features, January 1992.

~~(FOUO)~~ NSA/CSS SIGINT Data Standards Summary, April 1989.

~~(FOUO)~~ NSA/CSS Cryptologic/Intelligence Data Elements List, November 1988.

(U) American Newspaper Publishers Association Special Report Number 89-3, July 10, 1989.

(U) FBIS Electronic Dissemination System (FEDS) to Consumers Interface Control Document for the Automated FBIS System (AFS), DIN: MPD-115-200, April 28, 1993.

(U) Anchory Unit Development Folders (UDF) for the Input Load Process.

2.0 (U) General Database Design

2.1 (U) Characteristics

(U) The ANCHORY databases most closely follow the hierarchical data model. Each database is composed of documents that are related in some way. Documents, which are analogous to database records, are composed of paragraphs. These paragraphs are then analogous to fields within a database record. Examples of paragraphs might be the document recipients, date of issue, or the entire text of the document. Paragraphs are composed of subparagraphs, sentences, and finally words.

2.2 (U) Available Databases (Types or Sources of Data)

~~(C)~~ The following SOLIS/BELLTOPPER databases will be available under ANCHORY. It also serves as a list of the types and sources of data.

SOLIS

SIGINT Product

SIGINT Product

CIA product

State Department cables

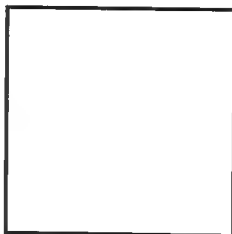
DoD/DIA reports

Unclassified FBIS reports

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Index to Intelligence Community Hardcopy reports

Reuters New Service

Cryptologic Intelligence Reports

NSRL

National SIGINT Requirements List

(U) Additional databases available under ANCHORY:

JPRS

Joint Publication Research Reports

USSIDs

US SIGINT Directives

2.3 (U) ANCHORY Database Groups

(C) Although division of data will follow those of SOLIS/BELLTOPPER somewhat, there are differences under ANCHORY. This design will divide the data into database groups. Some database groups are actually just one BRS database, and others groups of two or more databases. Databases groups differ by what data is to be kept on-line. In some, newly arriving documents are added while older data is "aged off". In others, a relatively static list of documents exists, and updates replace old versions with new ones.

2.3.1 (U) Data Aging

(U) In database groups where "data aging" occurs, the total size may be too great to fit neatly into one BRS database. The solution is to split the data into groups of databases based on the date it arrived. When multiple databases are necessary, by convention the databases will be numbered 1, 2, 3, 4, and 5. Database 1 will contain the most current data and 5 the least current. The exact contents of each is described below.

- Database 1 will contain data which has arrived in the current month and the immediately preceding month.
- Database 2 will contain data which has arrived in the current calendar year (beginning Jan 1) but not contained in Database 1.
- Database 3 will contain data from the previous year (Jan 1 - Dec 31).
- Database 4 will contain data from the year previous to database 3 (Jan 1 - Dec 31).
- Database 5 will contain at least enough data from the year previous to Database 4 to permit a total of 3 years on-line.

(U) This will assure that 3 years, plus 1 to 2 months to spare, is kept on-line if all three databases are employed. The naming convention is illustrated by this example. For the PROD database group the first database is PRO1, second is PRO2, and the third is PRO3.

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2.3.2 (U) Static Databases

(U) In databases where a relatively static number of documents exist, some simply keep only the current version on-line, while others keep record of old versions by storing at least some older versions, into a historical database.

2.3.3 (U) Complete ANCHORY Database List

(U) The following shows a mapping of the ANCHORY database groups to the SOLIS/BELLTOPPER databases listed above. The database size is given in time (if it is a database where aging is employed) or indicates that only the most recent versions (MRV) and/or historical versions (HIST) are kept. This is followed by an estimated size (in megabytes) of just the data, for the entire database group. Indexing overhead is not included in this figure. The last column gives a brief description of the SOLIS/BELLTOPPER equivalent.

TABLE 1. (U) ANCHORY Database Groups

ANCHORY DB Group Name	ANCHORY Database Name(s)	DB Size (time/Mbytes)	SOLIS/ BELLTOPPER Equivalent
PROD	PRO1 PRO2 PRO3 PRO4 PRO5	3 yrs / 2350	SOLIS
(b) (3) - P.L. 86-36		10 yrs / 57	
STAT	STA1 STA2 STA3 STA4 STA5	3 yrs / <input type="text"/>	
CIAD	CIA1 CIA2 CIA3 CIA4 CIA5	3 yrs / <input type="text"/>	
EXCL	EXCL	7 days / <input type="text"/>	

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TABLE 1. (U) ANCHORY Database Groups

ANCHORY DB Group Name	ANCHORY Database Name(s)	DB Size (time/Mbytes)	SOLIS/ BELLTOPPER Equivalent
DODD	DOD1 DOD2 DOD3 DOD4 DOD5	3 yrs / <input type="text"/>	<input type="text"/>
FBIS	FBS1 FBS2 FBS3 FBS4 FBS5	3 yrs / <input type="text"/>	<input type="text"/>
<input type="text"/>		10 yrs / 5	<input type="text"/>
<input type="text"/>		1 yr / 315	<input type="text"/>
CIRS	CIRS	10 yrs / 104	<input type="text"/>
JPRS	JPRS	3 yrs / <input type="text"/>	N/A
USSD	USSD	MRV/ 54	N/A
<input type="text"/>		MRV&HIST/ 40	NSRL <input type="text"/>
		MRV&HIST/ 20	NSRL <input type="text"/>
		MRV&HIST/ 20	NSRL <input type="text"/>
		MRV&HIST/ 6	NSRL <input type="text"/>
		MRV/ 30	NSRL <input type="text"/>

(U) Total space for data only is 16 Gigabytes (GB) with an additional 16 GB for BRS indexing (overhead).

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4.0 (U) Glossary

Non - Responsive

ANCHORY - ~~(FOUO)~~ The covername for the software system which provides on-line access to textual intelligence related documents.

Non - Responsive

BRS/Search - (U) The commercial text retrieval software which will be used in ANCHORY.

Non - Responsive

~~(FOUO)~~ The covername for the reports received from the Foreign Broadcast Information System.

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